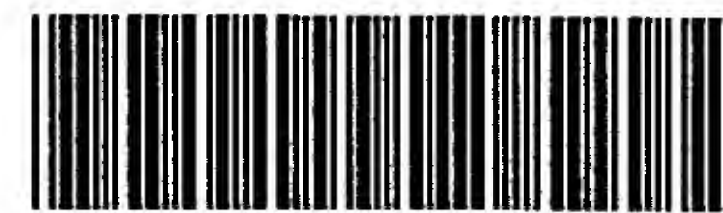


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The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/684,305  
Source: 1FW/6  
Date Processed by STIC: 2/6/05

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IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/684,305

DATE: 02/06/2005

TIME: 12:32:05

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3 <110> APPLICANT: Kaiser, Michael W.  
 4 Lyamichev, Victor I.  
 5 Lyamichev, Natasha  
 7 <120> TITLE OF INVENTION: Improved Cleavage Agents  
 9 <130> FILE REFERENCE: FORS-04447  
 11 <140> CURRENT APPLICATION NUMBER: 09/684,305  
 12 <141> CURRENT FILING DATE: 2000-10-06  
 14 <160> NUMBER OF SEQ ID NOS: 188  
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 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 2506  
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 21 <213> ORGANISM: Thermus aquaticus  
 23 <400> SEQUENCE: 1

P.6

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## RAW SEQUENCE LISTING

DATE: 02/06/2005

PATENT APPLICATION: US/09/684,305

TIME: 12:32:05

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109 &lt;210&gt; SEQ ID NO: 2

110 &lt;211&gt; LENGTH: 2496

111 &lt;212&gt; TYPE: DNA

112 &lt;213&gt; ORGANISM: thermus flavus

114 &lt;400&gt; SEQUENCE: 2

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## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/684,305

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193 caggtgcacg acgagctggg cctcgaggcc cccaaggacc gggcgagagag ggtagccgct 2400
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202 &lt;212&gt; TYPE: DNA

203 &lt;213&gt; ORGANISM: Thermus thermophilus

205 &lt;400&gt; SEQUENCE: 3

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## RAW SEQUENCE LISTING

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304 35 40 45
306 Lys Ser Leu Leu Lys Ala Leu Lys Glu Asp Gly Asp Ala Val Ile Val
307 50 55 60
309 Val Phe Asp Ala Lys Ala Pro Ser Phe Arg His Glu Ala Tyr Gly Gly
310 65 70 75 80
312 Tyr Lys Ala Gly Arg Ala Pro Thr Pro Glu Asp Phe Pro Arg Gln Leu
313 85 90 95
315 Ala Leu Ile Lys Glu Leu Val Asp Leu Leu Gly Leu Ala Arg Leu Glu
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319 115 120 125
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322 130 135 140
324 Leu Tyr Gln Leu Leu Ser Asp Arg Ile His Val Leu His Pro Glu Gly
325 145 150 155 160
327 Tyr Leu Ile Thr Pro Ala Trp Leu Trp Glu Lys Tyr Gly Leu Arg Pro
328 165 170 175
330 Asp Gln Trp Ala Asp Tyr Arg Ala Leu Thr Gly Asp Glu Ser Asp Asn
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339 Lys Pro Ala Ile Arg Glu Lys Ile Leu Ala His Met Asp Asp Leu Lys
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## RAW SEQUENCE LISTING

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355	305					310					315					320	
357	Leu	Leu	Ala	Leu	Ala	Ala	Ala	Arg	Gly	Gly	Arg	Val	His	Arg	Ala	Pro	
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360	Glu	Pro	Tyr	Lys	Ala	Leu	Arg	Asp	Leu	Lys	Glu	Ala	Arg	Gly	Leu	Leu	
361				340					345						350		
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364			355					360						365			
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367		370					375					380					
369	Thr	Thr	Pro	Glu	Gly	Val	Ala	Arg	Arg	Tyr	Gly	Gly	Glu	Trp	Thr	Glu	
370	385				390						395					400	
372	Glu	Ala	Gly	Glu	Arg	Ala	Ala	Leu	Ser	Glu	Arg	Leu	Phe	Ala	Asn	Leu	
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378	Val	Glu	Arg	Pro	Leu	Ser	Ala	Val	Leu	Ala	His	Met	Glu	Ala	Thr	Gly	
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387	Pro	Phe	Asn	Leu	Asn	Ser	Arg	Asp	Gln	Leu	Glu	Arg	Val	Leu	Phe	Asp	
388				485						490					495		
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391				500					505						510		
393	Ser	Thr	Ser	Ala	Ala	Val	Leu	Glu	Ala	Leu	Arg	Glu	Ala	His	Pro	Ile	
394			515					520					525				
396	Val	Glu	Lys	Ile	Leu	Gln	Tyr	Arg	Glu	Leu	Thr	Lys	Leu	Lys	Ser	Thr	
397		530					535						540				
399	Tyr	Ile	Asp	Pro	Leu	Pro	Asp	Leu	Ile	His	Pro	Arg	Thr	Gly	Arg	Leu	
400	545					550					555					560	
402	His	Thr	Arg	Phe	Asn	Gln	Thr	Ala	Thr	Ala	Thr	Gly	Arg	Leu	Ser	Ser	
403				565						570						575	
405	Ser	Asp	Pro	Asn	Leu	Gln	Asn	Ile	Pro	Val	Arg	Thr	Pro	Leu	Gly	Gln	
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409			595					600							605		
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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/684,305

DATE: 02/06/2005  
TIME: 12:32:06

Input Set : A:\04447.app

Output Set: N:\CRF4\02042005\I684305.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/684,305

DATE: 02/06/2005

TIME: 12:32:06

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M:341 Repeated in SeqNo=7

L:1199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0

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